

per cent of the entire seed. The latter contains 48.8 per cent of oil, which is golden yellow and fairly viscous. The oil is of the "nondrying" type, and probably could be used either for soap manufacture or as a lubricant. The residual meal left after extracting the oil has a fairly good nutritive value, but also has a small quantity of a saponin, and feeding trials would be necessary to determine whether the meal could be used for cattle feed. (Adapted from Bulletin of the Imperial Institute, London, vol. 17, p. 488.)

PHQTINIA sp. (Malaceae), 56276. From China. Seeds collected by J. F. Rock, Agricultural Explorer of the Bureau of Plant Industry. "(No. 7002. November, 1922.) A rosaceous tree 30 to 40 feet tall, with a dense crown, collected in the Kuyung mountains at an altitude of 6,000 feet. The narrow, pale-green leaves are toothed, and the flowers, said to be white, are borne in large panicles about 5 inches across. The fruits are deep orange-red." (Rock.)

PYRUS spp. (Malaceae), 56151, 56277, 56278, and 56280. **Pear.** From China. Seeds collected by J. F. Rock, Agricultural Explorer of the Bureau of Plant Industry. Quoted notes by Mr. Rock.

56151. **PYRUS** sp. "(No. 6730. Mengka, Yunnan. November 12, 1922.) A tree 30 feet high, with long, spreading branches, found wild in sandy loam on a small plain at an altitude of 5,400 feet. The large, oblong leaves are acute at both ends, and the very numerous spherical-compressed, russet-brown fruits are an inch in diameter. Where this species grows it is very cold; ice forms now every day in the late afternoon."

56277. **PYRUS** sp. "(November, 1922.) A wild pear found in the mountains near Puerhfu at an altitude of 6,000 feet. The large, mellow, edible fruits are 3 to 4 inches in diameter."

56278. **PYRUS** sp. "(No. 6735. November 20, 1922.) A large hardy tree, 60 to 70 feet tall, which grows in the mountains beyond Taho, north of Tengyueh, at an altitude of 7,000 feet. The leaves are large, oblong, and acuminate, and the numerous reddish brown, somewhat acrid fruits are 2½ inches in diameter."

56280. **PYRUS** sp. "(No. 7001. November, 1922.) A large tree 60 feet tall, with a huge ascending crown, found in sandy soil in an oak forest in the Kuyung mountains, north of Tengyueh, at an altitude of 7,000 feet. The leaves are large and oblong-lanceolate, with a reddish tinge. The numerous globose, greenish brown fruits are 2½ inches in diameter."

RAPHANUS SATIVUS (Brassicaceae), 56192. **Radish.** From Algiers, Algeria, North Africa. Seeds presented by Dr. L. Trabut, Government botanist, Algiers. "*Variety campestris*. An improved giant radish, with